



*E. Willard*  
*42-045-00070*  
**Monroe Energy, LLC**  
4101 Post Road  
Trainer, PA 19061  
(610) 364-8000

January 11, 2017

**Via FedEx**

James Rebarchak  
Regional Air Program Manager  
PA Department of Environmental Protection  
2 East Main Street  
Norristown, PA 19401

**RECEIVED**

JAN 31 2017

*Air Protection Division*

**Subject: Benzene Waste Operations NESHAPS**  
**Quarterly Report: October 31, 2016 – December 31, 2016**  
**EPA ID No. PAR 000015768**

Dear Mr. Rebarchak:

Monroe Energy, LLC, Trainer Refinery, submits this letter to fulfill the quarterly reporting requirements pursuant to 40 CFR Part 61, Subpart FF, §61.357(d).

During this reporting period, the Crude Oil Desalter Brine Treatment Unit (BTU) was monitored as required by 40 CFR §61.354(a)(1). Monthly samples were collected in October, November, and December. Measured benzene concentration in the BTU effluent remained less than 10 ppmw during the report period.

In addition to the above, all other required monitoring and inspections have been completed in accordance with the requirements of the aforementioned section.

Based on the information and belief formed after reasonable inquiry, I certify that the statements and information contained in this report are true, accurate, and complete.

If you have any questions about this report, please call Stephani Ski Szymanski, Environmental Engineer, at (610) 364-8073.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeffrey K. Warmann", written over a horizontal line.

Jeffrey K. Warmann  
CEO and President

Cc: Office of Air Enforcement & Compliance Assistance  
U.S. EPA, Region 3  
Mail Code 3AP20  
1650 Arch Street  
Philadelphia, PA 19103-2029  
**Via FedEx**



*E. Willard*  
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Air Protection Division

Mr. James Rebarchak  
Regional Manager - Air Quality  
Commonwealth of Pennsylvania  
Pennsylvania Dept of Environmental Protection  
2 East Main St.  
Norristown, PA 19401

**RE: MONROE ENERGY TRAINER REFINERY 2016 SEMI ANNUAL LDAR REPORTS**

Dear Mr. Rebarchak:

As required by Title 40, Part 60 Monroe Energy Trainer Refinery hereby submits the following Semi-Annual LDAR Reports for the time period July 1, 2016 to December 31, 2016

1. NSPS LDAR Report, per 40 CFR §60.480, Subpart VV:

- Compliance Monitoring Summary
- Compliance Repair Delay List
- Repair Delayed History – Components Repaired During Reporting Period
- Summary of Components Added and Deleted During Reporting Period

2. REFINERY MACT LDAR Report, per 40 CFR, Part 63, Subpart CC:

- Compliance Monitoring Summary
- Compliance Repair Delay List
- Repair Delayed History – Components Repaired During Reporting Period.
- Summary of Components Added and Deleted During Reporting Period.

3. GGGa LDAR Report, per 40 CFR §60.590a, Subpart GGGa:

- Compliance Monitoring Summary
- Compliance Repair Delay List
- Repair Delayed History – Components Repaired During Reporting Period.
- Summary of Components Added and Deleted During Reporting Period.

As required by the Consent Decree H-05-0258, paragraph 236, Monroe Energy is hereby notifying you that the report leak rates contained herein for valves and pumps are the applicable regulatory leak definitions in Title 40 CFR, 60.482.

In addition to the aforementioned Consent Decree, all valves with a leak rate of over 10,000 ppm that required a Drill and Tap were successfully repaired to a leak rate less than 500 ppm and were not placed on Delay of Repair list.

Subject to the penalties of Title 18 Pa. C.S. Section 4904 and 35 P.S. Section 4009 (b) (2), I certify under penalty of law that, based on information and belief formed after reasonable inquiry, the statements and information contained in this form are true, accurate, and complete.

Should you have any questions or comments regarding this report, please contact Stephani Ski Szymanski, Environmental Engineer and Program Lead, at (610) 364-8073.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Jeffrey K. Warmann', with a long horizontal flourish extending to the right.

Jeffrey K. Warmann  
CEO and President

Enclosures (1)

Cc: Ms. Zelma Maldonado  
Associate Director,  
Office of Air Enforcement,  
Compliance and Assistance  
USEPA Region III  
Air Protection Division  
3AP20  
1650 Arch Street  
Philadelphia, Pa 19103-1129

MONROE ENERGY TRAINER REFINERY  
 NSPS EPAVV/GGG LDAR SEMI ANNUAL REPORT  
 SUMMARY  
 REPORT DATE: JANUARY 06, 2017  
 REPORT PERIOD: JULY 01 2016 - DECEMBER 31, 2016

UNIT	CLASS	MONTH	MONITORED	LEAKED	ON DOR/ NOT A LATE REPAIR
<b><u>543 CRUDE</u></b>					
	PUMP	7	4	0	0
	PUMP	8	4	0	0
	PUMP	9	4	0	0
	PUMP	10	4	0	0
	PUMP	11	4	0	0
	PUMP	12	4	0	0
	RELIEF	8	8	0	0
	RELIEF	11	8	0	0
	VALVE	7	39	0	0
	VALVE	8	1,079	0	0
	VALVE	9	1	0	0
	VALVE	10	1	0	0
	VALVE	11	1,085	0	0
	VALVE	12	13	0	0
			<b><u>2,258</u></b>	<b><u>0</u></b>	<b><u>0</u></b>
<b><u>544 CRUDE</u></b>					
	PUMP	7	15	0	0
	PUMP	8	15	0	0
	PUMP	9	15	0	0
	PUMP	10	15	0	0
	PUMP	11	15	0	0
	PUMP	12	15	0	0
	RELIEF	7	1	0	0
	RELIEF	8	8	0	0
	RELIEF	11	8	0	0
	VALVE	7	24	0	0
	VALVE	8	1,174	0	0
	VALVE	9	5	0	0
	VALVE	10	5	0	0
	VALVE	11	1,174	0	0
	VALVE	12	13	0	0
			<b><u>2,502</u></b>	<b><u>0</u></b>	<b><u>0</u></b>
<b><u>544 VACUUM</u></b>					
	PUMP	7	2	0	0

PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	8	7	0	0
RELIEF	11	7	0	0
VALVE	8	392	0	0
VALVE	11	394	0	0
VALVE	12	5	0	0
		<u>817</u>	<u>0</u>	<u>0</u>

#### ALKY

CONECT	8	1	0	0
CONECT	11	1	1	0
PUMP	7	28	0	0
PUMP	8	28	0	0
PUMP	9	28	0	0
PUMP	10	28	0	0
PUMP	11	27	1	1
PUMP	12	26	0	0
RELIEF	8	39	0	0
RELIEF	11	36	0	0
RELIEF	12	4	0	0
VALVE	7	42	0	0
VALVE	8	3,407	2	0
VALVE	9	6	0	0
VALVE	10	1	0	0
VALVE	11	3,336	7	1
VALVE	12	38	0	0
		<u>7,076</u>	<u>11</u>	<u>2</u>

#### AMINE

PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	7	6	0	0
RELIEF	10	6	0	0
VALVE	7	357	0	0
VALVE	10	358	0	0
VALVE	11	1	0	0
		<u>740</u>	<u>0</u>	<u>0</u>



**AWWTP**

VALVE	7	140	0	0
VALVE	10	140	0	0
		<b><u>280</u></b>	<b><u>0</u></b>	<b><u>0</u></b>

**BLEND**

PUMP	7	16	0	0
PUMP	8	16	0	0
PUMP	9	16	0	0
PUMP	10	16	0	0
PUMP	11	16	0	0
PUMP	12	16	0	0
RELIEF	7	16	0	0
RELIEF	10	20	0	0
RELIEF	12	3	0	0
VALVE	7	1,263	0	0
VALVE	10	1,307	1	0
VALVE	11	82	1	0
VALVE	12	4	0	0
		<b><u>2,791</u></b>	<b><u>2</u></b>	<b><u>0</u></b>

**BOILER**

RELIEF	9	1	0	0
RELIEF	12	1	0	0
VALVE	9	78	0	0
VALVE	12	78	0	0
		<b><u>158</u></b>	<b><u>0</u></b>	<b><u>0</u></b>

**BUTANE**

RELIEF	8	7	0	0
RELIEF	11	7	0	0
VALVE	8	302	0	0
VALVE	10	7	0	0
VALVE	11	304	1	0
VALVE	12	1	0	0
		<b><u>628</u></b>	<b><u>1</u></b>	<b><u>0</u></b>

**DESALT**

PUMP	7	10	0	0
PUMP	8	9	0	0
PUMP	9	9	0	0
PUMP	10	9	0	0
PUMP	11	9	0	0
PUMP	12	10	0	0
RELIEF	7	12	0	0
RELIEF	10	12	0	0

VALVE	7	811	0	0
VALVE	10	807	0	0

		<u>1,698</u>	<u>0</u>	<u>0</u>
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DIESEL

PUMP	7	11	0	0
PUMP	8	11	0	0
PUMP	9	11	0	0
PUMP	10	11	0	0
PUMP	11	11	0	0
PUMP	12	11	0	0
RELIEF	7	11	0	0
RELIEF	10	9	0	0
VALVE	7	806	0	0
VALVE	10	792	0	0

		<u>1,684</u>	<u>0</u>	<u>0</u>
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FCC

PUMP	7	25	0	0
PUMP	8	25	0	0
PUMP	9	25	0	0
PUMP	10	7	0	0
PUMP	11	25	0	0
PUMP	12	24	0	0
RELIEF	7	1	0	0
RELIEF	8	33	0	0
RELIEF	11	33	1	1
RELIEF	12	2	0	0
VALVE	7	21	0	0
VALVE	8	2,290	2	0
VALVE	9	15	0	0
VALVE	11	2,296	0	0
VALVE	12	30	0	0

		<u>4,852</u>	<u>3</u>	<u>1</u>
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FLARE

PUMP	7	3	0	0
PUMP	8	3	0	0
PUMP	9	3	0	0
PUMP	10	3	0	0
PUMP	11	3	0	0
PUMP	12	3	0	0
VALVE	7	6	0	0
VALVE	9	221	0	0
VALVE	12	221	0	0

		<u>466</u>	<u>0</u>	<u>0</u>
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ISOCRK

COMPR	7	1	0	0
COMPR	8	1	0	0
COMPR	9	1	0	0
COMPR	10	1	0	0
COMPR	12	1	0	0
CONECT	11	1	1	0
PUMP	7	18	0	0
PUMP	8	18	0	0
PUMP	9	18	0	0
PUMP	10	18	0	0
PUMP	11	18	0	0
PUMP	12	18	0	0
RELIEF	7	56	0	0
RELIEF	10	56	0	0
VALVE	7	3,118	0	0
VALVE	8	6	0	0
VALVE	9	9	0	0
VALVE	10	3,122	1	0
VALVE	11	4	0	0
VALVE	12	5	0	0
		<u>6,490</u>	<u>2</u>	<u>0</u>

KERO

PUMP	7	9	0	0
PUMP	8	9	0	0
PUMP	9	9	0	0
PUMP	10	9	0	0
PUMP	11	9	0	0
PUMP	12	9	0	0
RELIEF	7	30	0	0
RELIEF	10	30	0	0
VALVE	7	1,519	0	0
VALVE	10	1,528	1	0
VALVE	11	12	1	0
VALVE	12	8	0	0
		<u>3,181</u>	<u>2</u>	<u>0</u>

LOWLN

PUMP	7	6	0	0
PUMP	8	6	0	0
PUMP	9	6	0	0
PUMP	10	6	0	0
PUMP	11	6	0	0
PUMP	12	6	0	0
RELIEF	7	6	0	0



RELIEF	10	6	0	0
VALVE	7	578	0	0
VALVE	10	574	0	0
		<u>1,200</u>	<u>0</u>	<u>0</u>

#### MARINE

PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	8	10	0	0
RELIEF	11	10	0	0
VALVE	7	76	0	0
VALVE	8	284	0	0
VALVE	11	291	1	0
VALVE	12	12	0	0
		<u>695</u>	<u>1</u>	<u>0</u>

#### NAPHTH

CONECT	12	1	1	0
PUMP	7	16	0	0
PUMP	8	16	0	0
PUMP	9	16	0	0
PUMP	10	16	0	0
PUMP	11	16	0	0
PUMP	12	16	0	0
RELIEF	9	13	0	0
RELIEF	12	13	0	0
VALVE	7	4	0	0
VALVE	8	2	0	0
VALVE	9	1,508	2	0
VALVE	10	3	0	0
VALVE	11	3	0	0
VALVE	12	1,510	0	0
		<u>3,153</u>	<u>3</u>	<u>0</u>

#### PLATFO

COMPR	7	1	0	0
COMPR	8	1	0	0
COMPR	9	1	0	0
COMPR	10	1	0	0
COMPR	12	1	0	0
PUMP	7	10	0	0
PUMP	8	10	0	0
PUMP	9	10	0	0

PUMP	10	10	0	0
PUMP	11	10	0	0
PUMP	12	10	0	0
RELIEF	9	30	0	0
RELIEF	12	30	1	1
VALVE	7	6	0	0
VALVE	8	4	0	0
VALVE	9	2,192	0	0
VALVE	10	6	0	0
VALVE	11	20	1	0
VALVE	12	2,191	1	0
		<b><u>4,544</u></b>	<b><u>3</u></b>	<b><u>1</u></b>

**PRORCL**

PUMP	7	1	0	0
PUMP	8	1	0	0
PUMP	9	1	0	0
PUMP	10	1	0	0
PUMP	11	1	0	0
PUMP	12	1	0	0
RELIEF	9	3	0	0
RELIEF	12	4	1	0
VALVE	7	3	0	0
VALVE	8	35	0	0
VALVE	9	330	3	0
VALVE	10	4	0	0
VALVE	11	3	2	0
VALVE	12	331	1	0
		<b><u>719</u></b>	<b><u>7</u></b>	<b><u>0</u></b>

**PROREC**

CONECT	11	1	1	0
RELIEF	8	12	0	0
RELIEF	11	12	0	0
VALVE	7	4	0	0
VALVE	8	643	0	0
VALVE	11	645	4	1
VALVE	12	6	0	0
		<b><u>1,323</u></b>	<b><u>5</u></b>	<b><u>1</u></b>

**PROSTO**

CONECT	10	1	1	0
CONECT	11	1	0	0
PUMP	7	6	0	0
PUMP	8	6	0	0
PUMP	9	6	0	0

PUMP	10	6	0	0
PUMP	11	6	0	0
PUMP	12	6	0	0
RELIEF	7	20	0	0
RELIEF	10	20	0	0
VALVE	7	518	0	0
VALVE	8	32	0	0
VALVE	9	2	0	0
VALVE	10	531	1	0
VALVE	11	17	0	0
VALVE	12	5	0	0

		<u>1,183</u>	<u>2</u>	<u>0</u>
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#### REFORM

PUMP	7	8	0	0
PUMP	8	8	0	0
PUMP	9	8	0	0
PUMP	10	8	0	0
PUMP	11	8	0	0
PUMP	12	8	0	0
RELIEF	8	11	0	0
RELIEF	11	11	0	0
VALVE	7	1	0	0
VALVE	8	826	0	0
VALVE	11	826	2	0
VALVE	12	3	0	0

		<u>1,726</u>	<u>2</u>	<u>0</u>
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#### SOUR WATER

RELIEF	8	2	0	0
RELIEF	11	2	1	1
RELIEF	12	1	0	0
VALVE	8	53	0	0
VALVE	11	53	0	0

		<u>111</u>	<u>1</u>	<u>1</u>
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#### SOUTH TANK FARM

PUMP	7	28	0	0
PUMP	8	28	0	0
PUMP	9	26	0	0
PUMP	10	25	0	0
PUMP	11	25	0	0
PUMP	12	24	0	0
RELIEF	8	2	0	0
RELIEF	9	22	0	0
RELIEF	12	25	0	0

VALVE	7	90	0	0
VALVE	8	76	0	0
VALVE	9	2,612	0	0
VALVE	10	211	0	0
VALVE	11	23	1	0
VALVE	12	2,561	2	0

**5,778**                      **3**                      **0**

**SRU**

RELIEF	7	3	0	0
RELIEF	10	3	0	0
VALVE	7	78	0	0
VALVE	10	78	0	0

**162**                      **0**                      **0**

**TAIL GAS**

CONECT	10	1	1	0
RELIEF	7	3	0	0
RELIEF	10	3	0	0
VALVE	7	159	0	0
VALVE	10	159	0	0

**325**                      **1**                      **0**

**TF**

PUMP	7	10	0	0
PUMP	8	10	0	0
PUMP	9	10	0	0
PUMP	10	10	0	0
PUMP	11	10	0	0
PUMP	12	10	0	0
RELIEF	7	1	0	0
VALVE	7	14	0	0
VALVE	9	862	0	0
VALVE	12	833	0	0

**1,770**                      **0**                      **0**

**VACUUM**

CONECT	12	1	1	0
PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	7	3	0	0
RELIEF	10	3	0	0

VALVE	7	494	0	0
VALVE	10	494	0	0
VALVE	12	6	0	0

		<u>1,013</u>	<u>1</u>	<u>0</u>
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VGO

CONECT	10	1	1	0
PUMP	7	1	0	0
PUMP	8	1	0	0
PUMP	9	1	0	0
PUMP	10	1	0	0
PUMP	11	1	0	0
PUMP	12	1	0	0
RELIEF	7	11	0	0
RELIEF	10	11	0	0
VALVE	7	617	0	0
VALVE	8	4	0	0
VALVE	9	4	0	0
VALVE	10	616	0	0
VALVE	11	3	0	0
VALVE	12	3	0	0

		<u>1,276</u>	<u>1</u>	<u>0</u>
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<b>TOTAL:</b>	<b>60,599</b>	<b>51</b>	<b>6</b>
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MONROE ENERGY TRAINER REFINERY

LDAR ON DELAY OF REPAIR

NSPS VV/GGG REPORT

REPORT DATE: 01/06/2017

REPORT COMPLIANCE PERIOD: 07/01/2016 - 12/31/2016

UNIT	TAG	CLASS	PLACED ON DELAY
ALKY	18680	PUMP	11/22/2016
ALKY	20472	VALVE	12/6/2016
FCC	22957	RELIEF	12/1/2016
PLATFO	10003	RELIEF	12/16/2016
PROREC	17101	VALVE	11/22/2016
SOUR WATER	4526	RELIEF	11/30/2016
			6



MONROE ENERGY TRAINER REFINERY

REMOVED FROM DELAY OF REPAIR

NSPS VV/GGG REPORT

REPORT DATE: 01/06/2017

REPORT COMPLIANCE PERIOD: 07/01/2016 - 12/31/2016

UNIT	TAG	CLASS	OFF OF DELAY
ALKY	18680	PUMP	12/21/2016
ISOCRK	15140	VALVE	9/8/2016
NAPTHA	200011A	CONNECT	12/3/2016
PLATFO	10003	RELIEF	12/27/2016
			4

MONROE ENERGY TRAINER REFINERY

ADDED AND DELETED

NSPS VV/GGG REPORT

REPORT DATE: 01/06/2017

REPORT COMPLIANCE PERIOD: 07/01/2016 - 12/31/2016

UNIT	CLASS	ADDED	DELETED
543 CRUDE	PRESSURE RELIEF DEVICE	0	0
543 CRUDE	PUMP	0	0
543 CRUDE	VALVE	8	4
544 CRUDE	PRESSURE RELIEF DEVICE	0	0
544 CRUDE	PUMP	0	0
544 CRUDE	VALVE	1	1
544 VACUUM	PRESSURE RELIEF DEVICE	0	0
544 VACUUM	PUMP	0	0
544 VACUUM	VALVE	3	1
ALKY	CONNECTOR	2	0
ALKY	PRESSURE RELIEF DEVICE	2	0
ALKY	PUMP	1	1
ALKY	VALVE	21	23
AMINE	PRESSURE RELIEF DEVICE	0	0
AMINE	PUMP	0	0
AMINE	VALVE	1	0
AWWTP	VALVE	0	0
BLEND	CONNECTOR	0	0
BLEND	PRESSURE RELIEF DEVICE	3	1
BLEND	PUMP	1	1
BLEND	VALVE	82	48
BOILER	PRESSURE RELIEF DEVICE	0	0
BOILER	VALVE	0	0
BUTANE	PRESSURE RELIEF DEVICE	0	0
BUTANE	VALVE	7	2
CRUDE	CONNECTOR	0	0
CRUDE	PRESSURE RELIEF DEVICE	0	0
CRUDE	PUMP	0	0
CRUDE	VALVE	0	0
DESALT	CONNECTOR	0	0
DESALT	PRESSURE RELIEF DEVICE	0	0
DESALT	PUMP	0	0
DESALT	VALVE	0	0
DIESEL	COMPRESSOR	0	0
DIESEL	CONNECTOR	0	0
DIESEL	PRESSURE RELIEF DEVICE	0	0
DIESEL	PUMP	0	0
DIESEL	VALVE	0	1
FCC	COMPRESSOR	0	0
FCC	CONNECTOR	0	0
FCC	PRESSURE RELIEF DEVICE	1	0
FCC	PUMP	0	0
FCC	VALVE	42	14
FLARE	PUMP	0	0
FLARE	VALVE	0	0
ISOCRK	COMPRESSOR	0	0
ISOCRK	CONNECTOR	1	0

ISOCRK	PRESSURE RELIEF DEVICE	0	0
ISOCRK	PUMP	0	0
ISOCRK	VALVE	6	1
KERO	COMPRESSOR	0	0
KERO	CONNECTOR	0	0
KERO	PRESSURE RELIEF DEVICE	0	0
KERO	PUMP	0	0
KERO	VALVE	18	10
LOWLN	COMPRESSOR	0	0
LOWLN	CONNECTOR	0	0
LOWLN	PRESSURE RELIEF DEVICE	0	0
LOWLN	PUMP	0	0
LOWLN	VALVE	0	0
MARINE	COMPRESSOR	0	0
MARINE	CONNECTOR	0	0
MARINE	PRESSURE RELIEF DEVICE	1	0
MARINE	PUMP	2	0
MARINE	VALVE	84	3
NAPHTH	COMPRESSOR	0	0
NAPHTH	CONNECTOR	1	0
NAPHTH	PRESSURE RELIEF DEVICE	0	0
NAPHTH	PUMP	0	0
NAPHTH	VALVE	13	12
OYF	VALVE	0	0
PLATFO	COMPRESSOR	0	0
PLATFO	CONNECTOR	0	0
PLATFO	PRESSURE RELIEF DEVICE	0	0
PLATFO	PUMP	0	0
PLATFO	VALVE	1	2
PRORCL	CONNECTOR	0	0
PRORCL	PRESSURE RELIEF DEVICE	1	1
PRORCL	PUMP	0	0
PRORCL	VALVE	34	0
PROREC	CONNECTOR	2	1
PROREC	PRESSURE RELIEF DEVICE	0	0
PROREC	VALVE	2	0
PROSTO	CONNECTOR	2	0
PROSTO	PRESSURE RELIEF DEVICE	1	0
PROSTO	PUMP	0	0
PROSTO	VALVE	20	5
REFORM	CONNECTOR	0	0
REFORM	PRESSURE RELIEF DEVICE	0	1
REFORM	PUMP	0	0
REFORM	VALVE	1	0
SOUR WATER	PRESSURE RELIEF DEVICE	0	0
SOUR WATER	PUMP	0	0
SOUR WATER	VALVE	0	0
SOUTH TANK FARM	COMPRESSOR	0	0
SOUTH TANK FARM	CONNECTOR	0	0
SOUTH TANK FARM	PRESSURE RELIEF DEVICE	7	4
SOUTH TANK FARM	PUMP	0	4
SOUTH TANK FARM	VALVE	293	234
SRU	COMPRESSOR	0	0
SRU	PRESSURE RELIEF DEVICE	0	0
SRU	VALVE	0	0

SUNOL	CONNECTOR	0	0
SUNOL	PRESSURE RELIEF DEVICE	0	0
SUNOL	VALVE	0	0
TAIL GAS	CONNECTOR	1	0
TAIL GAS	PRESSURE RELIEF DEVICE	0	0
TAIL GAS	VALVE	0	0
TF	CONNECTOR	0	0
TF	PRESSURE RELIEF DEVICE	0	1
TF	PUMP	0	0
TF	VALVE	9	42
VACUUM	CONNECTOR	1	0
VACUUM	PRESSURE RELIEF DEVICE	0	0
VACUUM	PUMP	0	0
VACUUM	VALVE	2	1
VGO	COMPRESSOR	0	0
VGO	CONNECTOR	1	0
VGO	PRESSURE RELIEF DEVICE	0	0
VGO	PUMP	0	0
VGO	VALVE	0	8
WGS	CONNECTOR	0	0
WGS	VALVE	0	0
TOTAL		679	427





MONROE ENERGY TRAINER REFINERY  
 REFMACT (HAP UNITS) LDAR SEMI ANNUAL REPORT  
 SUMMARY

REFMACT HAP UNITS IN BLUE

REPORT DATE: JANUARY 6, 2017

REPORT PERIOD: JULY 1 2016 - DECEMBER 31, 2016

UNIT	CLASS	MONTH	MONITORED	LEAKED	ON DOR/ NOT A LATE REPAIR
<b><u>543 CRUDE</u></b>					
	PUMP	7	4	0	0
	PUMP	8	4	0	0
	PUMP	9	4	0	0
	PUMP	10	4	0	0
	PUMP	11	4	0	0
	PUMP	12	4	0	0
	RELIEF	8	8	0	0
	RELIEF	11	8	0	0
	VALVE	7	39	0	0
	VALVE	8	1,079	0	0
	VALVE	9	1	0	0
	VALVE	10	1	0	0
	VALVE	11	1,085	0	0
	VALVE	12	13	0	0
			<b><u>2,258</u></b>	<b><u>0</u></b>	<b><u>0</u></b>
<b><u>544 CRUDE</u></b>					
	PUMP	7	15	0	0
	PUMP	8	15	0	0
	PUMP	9	15	0	0
	PUMP	10	15	0	0
	PUMP	11	15	0	0
	PUMP	12	15	0	0
	RELIEF	7	1	0	0
	RELIEF	8	8	0	0
	RELIEF	11	8	0	0
	VALVE	7	24	0	0
	VALVE	8	1,174	0	0
	VALVE	9	5	0	0
	VALVE	10	5	0	0
	VALVE	11	1,174	0	0
	VALVE	12	13	0	0
			<b><u>2,502</u></b>	<b><u>0</u></b>	<b><u>0</u></b>
<b><u>544 VACUUM</u></b>					



PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	8	7	0	0
RELIEF	11	7	0	0
VALVE	8	392	0	0
VALVE	11	394	0	0
VALVE	12	5	0	0
		<u>817</u>	<u>0</u>	<u>0</u>

#### ALKY

CONECT	8	1	0	0
CONECT	11	1	1	0
PUMP	7	28	0	0
PUMP	8	28	0	0
PUMP	9	28	0	0
PUMP	10	28	0	0
PUMP	11	27	1	1
PUMP	12	26	0	0
RELIEF	8	39	0	0
RELIEF	11	36	0	0
RELIEF	12	4	0	0
VALVE	7	42	0	0
VALVE	8	3,407	2	0
VALVE	9	6	0	0
VALVE	10	1	0	0
VALVE	11	3,336	7	1
VALVE	12	38	0	0
		<u>7,076</u>	<u>11</u>	<u>2</u>

#### AMINE

PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	7	6	0	0
RELIEF	10	6	0	0
VALVE	7	357	0	0
VALVE	10	358	0	0
VALVE	11	1	0	0

			<u>740</u>	<u>0</u>	<u>0</u>
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AWWTP

VALVE	7	140	0	0
VALVE	10	140	0	0

280      0      0

BLEND

PUMP	7	16	0	0
PUMP	8	16	0	0
PUMP	9	16	0	0
PUMP	10	16	0	0
PUMP	11	16	0	0
PUMP	12	16	0	0
RELIEF	7	16	0	0
RELIEF	10	20	0	0
RELIEF	12	3	0	0
VALVE	7	1,263	0	0
VALVE	10	1,307	1	0
VALVE	11	82	1	0
VALVE	12	4	0	0

2,791      2      0

BOILER

RELIEF	9	1	0	0
RELIEF	12	1	0	0
VALVE	9	78	0	0
VALVE	12	78	0	0

158      0      0

BUTANE

RELIEF	8	7	0	0
RELIEF	11	7	0	0
VALVE	8	302	0	0
VALVE	10	7	0	0
VALVE	11	304	1	0
VALVE	12	1	0	0

628      1      0

DESALT

PUMP	7	10	0	0
PUMP	8	9	0	0
PUMP	9	9	0	0
PUMP	10	9	0	0
PUMP	11	9	0	0

PUMP	12	10	0	0
RELIEF	7	12	0	0
RELIEF	10	12	0	0
VALVE	7	811	0	0
VALVE	10	807	0	0
		<b><u>1,698</u></b>	<b><u>0</u></b>	<b><u>0</u></b>

#### DIESEL

PUMP	7	11	0	0
PUMP	8	11	0	0
PUMP	9	11	0	0
PUMP	10	11	0	0
PUMP	11	11	0	0
PUMP	12	11	0	0
RELIEF	7	11	0	0
RELIEF	10	9	0	0
VALVE	7	806	0	0
VALVE	10	792	0	0
		<b><u>1,684</u></b>	<b><u>0</u></b>	<b><u>0</u></b>

#### FCC

PUMP	7	25	0	0
PUMP	8	25	0	0
PUMP	9	25	0	0
PUMP	10	7	0	0
PUMP	11	25	0	0
PUMP	12	24	0	0
RELIEF	7	1	0	0
RELIEF	8	33	0	0
RELIEF	11	33	1	1
RELIEF	12	2	0	0
VALVE	7	21	0	0
VALVE	8	2,290	2	0
VALVE	9	15	0	0
VALVE	11	2,296	0	0
VALVE	12	30	0	0
		<b><u>4,852</u></b>	<b><u>3</u></b>	<b><u>1</u></b>

#### FLARE

PUMP	7	3	0	0
PUMP	8	3	0	0
PUMP	9	3	0	0
PUMP	10	3	0	0
PUMP	11	3	0	0
PUMP	12	3	0	0



VALVE	7	6	0	0
VALVE	9	221	0	0
VALVE	12	221	0	0

**466**                      **0**                      **0**

**ISOCRK**

COMPR	7	1	0	0
COMPR	8	1	0	0
COMPR	9	1	0	0
COMPR	10	1	0	0
COMPR	12	1	0	0
CONECT	11	1	1	0
PUMP	7	18	0	0
PUMP	8	18	0	0
PUMP	9	18	0	0
PUMP	10	18	0	0
PUMP	11	18	0	0
PUMP	12	18	0	0
RELIEF	7	56	0	0
RELIEF	10	56	0	0
VALVE	7	3,118	0	0
VALVE	8	6	0	0
VALVE	9	9	0	0
VALVE	10	3,122	1	0
VALVE	11	4	0	0
VALVE	12	5	0	0

**6,490**                      **2**                      **0**

**KERO/HCN**

PUMP	7	9	0	0
PUMP	8	9	0	0
PUMP	9	9	0	0
PUMP	10	9	0	0
PUMP	11	9	0	0
PUMP	12	9	0	0
RELIEF	7	30	0	0
RELIEF	10	30	0	0
VALVE	7	1,519	0	0
VALVE	10	1,528	1	0
VALVE	11	12	1	0
VALVE	12	8	0	0

**3,181**                      **2**                      **0**

**LOWLN**

PUMP	7	6	0	0
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PUMP	8	6	0	0
PUMP	9	6	0	0
PUMP	10	6	0	0
PUMP	11	6	0	0
PUMP	12	6	0	0
RELIEF	7	6	0	0
RELIEF	10	6	0	0
VALVE	7	578	0	0
VALVE	10	574	0	0
		<u>1,200</u>	<u>0</u>	<u>0</u>

#### MARINE

PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	8	10	0	0
RELIEF	11	10	0	0
VALVE	7	76	0	0
VALVE	8	284	0	0
VALVE	11	291	1	0
VALVE	12	12	0	0
		<u>695</u>	<u>1</u>	<u>0</u>

#### NAPHTH

CONECT	12	1	1	0
PUMP	7	16	0	0
PUMP	8	16	0	0
PUMP	9	16	0	0
PUMP	10	16	0	0
PUMP	11	16	0	0
PUMP	12	16	0	0
RELIEF	9	13	0	0
RELIEF	12	13	0	0
VALVE	7	4	0	0
VALVE	8	2	0	0
VALVE	9	1,508	2	0
VALVE	10	3	0	0
VALVE	11	3	0	0
VALVE	12	1,510	0	0
		<u>3,153</u>	<u>3</u>	<u>0</u>

#### PLATFO

COMPR	7	1	0	0
COMPR	8	1	0	0
COMPR	9	1	0	0
COMPR	10	1	0	0
COMPR	12	1	0	0
PUMP	7	10	0	0
PUMP	8	10	0	0
PUMP	9	10	0	0
PUMP	10	10	0	0
PUMP	11	10	0	0
PUMP	12	10	0	0
RELIEF	9	30	0	0
RELIEF	12	30	1	1
VALVE	7	6	0	0
VALVE	8	4	0	0
VALVE	9	2,192	0	0
VALVE	10	6	0	0
VALVE	11	20	1	0
VALVE	12	2,191	1	0
		<u>4,544</u>	<u>3</u>	<u>1</u>

PRORCL

PUMP	7	1	0	0
PUMP	8	1	0	0
PUMP	9	1	0	0
PUMP	10	1	0	0
PUMP	11	1	0	0
PUMP	12	1	0	0
RELIEF	9	3	0	0
RELIEF	12	4	1	0
VALVE	7	3	0	0
VALVE	8	35	0	0
VALVE	9	330	3	0
VALVE	10	4	0	0
VALVE	11	3	2	0
VALVE	12	331	1	0
		<u>719</u>	<u>7</u>	<u>0</u>

PROREC

CONECT	11	1	1	0
RELIEF	8	12	0	0
RELIEF	11	12	0	0
VALVE	7	4	0	0
VALVE	8	643	0	0
VALVE	11	645	4	1
VALVE	12	6	0	0



1,32351PROSTO

CONECT	10	1	1	0
CONECT	11	1	0	0
PUMP	7	6	0	0
PUMP	8	6	0	0
PUMP	9	6	0	0
PUMP	10	6	0	0
PUMP	11	6	0	0
PUMP	12	6	0	0
RELIEF	7	20	0	0
RELIEF	10	20	0	0
VALVE	7	518	0	0
VALVE	8	32	0	0
VALVE	9	2	0	0
VALVE	10	531	1	0
VALVE	11	17	0	0
VALVE	12	5	0	0

1,18320REFORM

PUMP	7	8	0	0
PUMP	8	8	0	0
PUMP	9	8	0	0
PUMP	10	8	0	0
PUMP	11	8	0	0
PUMP	12	8	0	0
RELIEF	8	11	0	0
RELIEF	11	11	0	0
VALVE	7	1	0	0
VALVE	8	826	0	0
VALVE	11	826	2	0
VALVE	12	3	0	0

1,72620SOUR

RELIEF	8	2	0	0
RELIEF	11	2	1	1
RELIEF	12	1	0	0
VALVE	8	53	0	0
VALVE	11	53	0	0

11111

**SOUTH TANK FARM**

PUMP	7	28	0	0
PUMP	8	28	0	0
PUMP	9	26	0	0
PUMP	10	25	0	0
PUMP	11	25	0	0
PUMP	12	24	0	0
RELIEF	8	2	0	0
RELIEF	9	22	0	0
RELIEF	12	25	0	0
VALVE	7	90	0	0
VALVE	8	76	0	0
VALVE	9	2,612	0	0
VALVE	10	211	0	0
VALVE	11	23	1	0
VALVE	12	2,561	2	0
		<b><u>5,778</u></b>	<b><u>3</u></b>	<b><u>0</u></b>

**SRU**

RELIEF	7	3	0	0
RELIEF	10	3	0	0
VALVE	7	78	0	0
VALVE	10	78	0	0
		<b><u>162</u></b>	<b><u>0</u></b>	<b><u>0</u></b>

**TAIL GAS**

CONECT	10	1	1	0
RELIEF	7	3	0	0
RELIEF	10	3	0	0
VALVE	7	159	0	0
VALVE	10	159	0	0
		<b><u>325</u></b>	<b><u>1</u></b>	<b><u>0</u></b>

**TF**

PUMP	7	10	0	0
PUMP	8	10	0	0
PUMP	9	10	0	0
PUMP	10	10	0	0
PUMP	11	10	0	0
PUMP	12	10	0	0
RELIEF	7	1	0	0
VALVE	7	14	0	0
VALVE	9	862	0	0
VALVE	12	833	0	0

1,77000VACUUM

CONECT	12	1	1	0
PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0
PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	7	3	0	0
RELIEF	10	3	0	0
VALVE	7	494	0	0
VALVE	10	494	0	0
VALVE	12	6	0	0

1,01310VGO

CONECT	10	1	1	0
PUMP	7	1	0	0
PUMP	8	1	0	0
PUMP	9	1	0	0
PUMP	10	1	0	0
PUMP	11	1	0	0
PUMP	12	1	0	0
RELIEF	7	11	0	0
RELIEF	10	11	0	0
VALVE	7	617	0	0
VALVE	8	4	0	0
VALVE	9	4	0	0
VALVE	10	616	0	0
VALVE	11	3	0	0
VALVE	12	3	0	0

1,27610

TOTAL:

60,599

51

6



MONROE ENERGY TRAINER REFINERY

LDAR ON DELAY OF REPAIR

REFMACT (HAP UNITS) LDAR REPORT

REPORT DATE: 01/06/2017

REFMACT HAP UNITS IN BLUE

REPORT COMPLIANCE PERIOD: 07/01/2016 - 12/31/2016

UNIT	TAG	CLASS	PLACED ON DELAY
ALKY	18680	PUMP	11/22/2016
ALKY	20472	VALVE	12/06/2016
FCC	22957	RELIEF	12/01/2016
PLATFO	10003	RELIEF	12/16/2016
PROREC	17101	VALVE	11/22/2016
SOUR WATER	4526	RELIEF	11/30/2016
			6



MONROE ENERGY TRAINER REFINERY

REMOVED FROM DELAY OF REPAIR

REFMACT HAP UNIT LDAR REPORT

REPORT DATE: 01/06/2017

REPORT COMPLIANCE PERIOD: 07/01/2016 - 12/31/2016

REFMACT HAP UNITS IN BLUE

UNIT	TAG	CLASS	OFF OF DELAY
ALKY	18680	PUMP	12/21/2016
ISOCRK	15140	VALVE	09/08/2016
NAPTHA	200011A	CONNECT	12/03/2016
PLATFO	10003	RELIEF	12/27/2016
			4



MONROE ENERGY TRAINER REFINERY

ADDED AND DELETED

REFMACT HAP UNITS IN BLUE

REFMACT HAP UNITS LDAR REPORT

REPORT DATE: 01/06/2017

REPORT COMPLIANCE PERIOD: 07/01/2016 - 12/31/2016

UNIT	CLASS	ADDED	DELETED
543 CRUDE	PRESSURE RELIEF DEVICE	0	0
543 CRUDE	PUMP	0	0
543 CRUDE	VALVE	8	4
544 CRUDE	PRESSURE RELIEF DEVICE	0	0
544 CRUDE	PUMP	0	0
544 CRUDE	VALVE	1	1
544 VACUUM	PRESSURE RELIEF DEVICE	0	0
544 VACUUM	PUMP	0	0
544 VACUUM	VALVE	3	1
ALKY	CONNECTOR	2	0
ALKY	PRESSURE RELIEF DEVICE	2	0
ALKY	PUMP	1	1
ALKY	VALVE	21	23
AMINE	PRESSURE RELIEF DEVICE	0	0
AMINE	PUMP	0	0
AMINE	VALVE	1	0
AWWTP	VALVE	0	0
BLEND	CONNECTOR	0	0
BLEND	PRESSURE RELIEF DEVICE	3	1
BLEND	PUMP	1	1
BLEND	VALVE	82	48
BOILER	PRESSURE RELIEF DEVICE	0	0
BOILER	VALVE	0	0
BUTANE	PRESSURE RELIEF DEVICE	0	0
BUTANE	VALVE	7	2
CRUDE	CONNECTOR	0	0
CRUDE	PRESSURE RELIEF DEVICE	0	0
CRUDE	PUMP	0	0
CRUDE	VALVE	0	0
DESALT	CONNECTOR	0	0
DESALT	PRESSURE RELIEF DEVICE	0	0
DESALT	PUMP	0	0
DESALT	VALVE	0	0
DIESEL	COMPRESSOR	0	0
DIESEL	CONNECTOR	0	0
DIESEL	PRESSURE RELIEF DEVICE	0	0
DIESEL	PUMP	0	0
DIESEL	VALVE	0	1
FCC	COMPRESSOR	0	0
FCC	CONNECTOR	0	0
FCC	PRESSURE RELIEF DEVICE	1	0
FCC	PUMP	0	0
FCC	VALVE	42	14
FLARE	PUMP	0	0
FLARE	VALVE	0	0
ISOCRK	COMPRESSOR	0	0
ISOCRK	CONNECTOR	1	0

ISOCRK	PRESSURE RELIEF DEVICE	0	0
ISOCRK	PUMP	0	0
ISOCRK	VALVE	6	1
KERO	COMPRESSOR	0	0
KERO	CONNECTOR	0	0
KERO	PRESSURE RELIEF DEVICE	0	0
KERO	PUMP	0	0
KERO	VALVE	18	10
LOWLN	COMPRESSOR	0	0
LOWLN	CONNECTOR	0	0
LOWLN	PRESSURE RELIEF DEVICE	0	0
LOWLN	PUMP	0	0
LOWLN	VALVE	0	0
MARINE	COMPRESSOR	0	0
MARINE	CONNECTOR	0	0
MARINE	PRESSURE RELIEF DEVICE	1	0
MARINE	PUMP	2	0
MARINE	VALVE	84	3
NAPHTH	COMPRESSOR	0	0
NAPHTH	CONNECTOR	1	0
NAPHTH	PRESSURE RELIEF DEVICE	0	0
NAPHTH	PUMP	0	0
NAPHTH	VALVE	13	12
OYF	VALVE	0	0
PLATFORM	COMPRESSOR	0	0
PLATFORM	CONNECTOR	0	0
PLATFORM	PRESSURE RELIEF DEVICE	0	0
PLATFORM	PUMP	0	0
PLATFORM	VALVE	1	2
PRORCL	CONNECTOR	0	0
PRORCL	PRESSURE RELIEF DEVICE	1	1
PRORCL	PUMP	0	0
PRORCL	VALVE	34	0
PROREC	CONNECTOR	2	1
PROREC	PRESSURE RELIEF DEVICE	0	0
PROREC	VALVE	2	0
PROSTO	CONNECTOR	2	0
PROSTO	PRESSURE RELIEF DEVICE	1	0
PROSTO	PUMP	0	0
PROSTO	VALVE	20	5
REFORM	CONNECTOR	0	0
REFORM	PRESSURE RELIEF DEVICE	0	1
REFORM	PUMP	0	0
REFORM	VALVE	1	0
SOUR WATER	PRESSURE RELIEF DEVICE	0	0
SOUR WATER	PUMP	0	0
SOUR WATER	VALVE	0	0
SOUTH TANK FARM	COMPRESSOR	0	0
SOUTH TANK FARM	CONNECTOR	0	0
SOUTH TANK FARM	PRESSURE RELIEF DEVICE	7	4
SOUTH TANK FARM	PUMP	0	4
SOUTH TANK FARM	VALVE	293	234
SRU	COMPRESSOR	0	0
SRU	PRESSURE RELIEF DEVICE	0	0
SRU	VALVE	0	0



SUNOL	CONNECTOR	0	0
SUNOL	PRESSURE RELIEF DEVICE	0	0
SUNOL	VALVE	0	0
TAIL GAS	CONNECTOR	1	0
TAIL GAS	PRESSURE RELIEF DEVICE	0	0
TAIL GAS	VALVE	0	0
TF	CONNECTOR	0	0
TF	PRESSURE RELIEF DEVICE	0	1
TF	PUMP	0	0
TF	VALVE	9	42
VACUUM	CONNECTOR	1	0
VACUUM	PRESSURE RELIEF DEVICE	0	0
VACUUM	PUMP	0	0
VACUUM	VALVE	2	1
VGO	COMPRESSOR	0	0
VGO	CONNECTOR	1	0
VGO	PRESSURE RELIEF DEVICE	0	0
VGO	PUMP	0	0
VGO	VALVE	0	8
WGS	CONNECTOR	0	0
WGS	VALVE	0	0
<b>TOTAL</b>		<b>679</b>	<b>427</b>





MONROE ENERGY TRAINER REPORT  
GGGa SEMI ANNUAL LDAR REPORT  
SUMMARY

REPORT DATE: JANUARY 5, 2017

REPORT PERIOD: JULY 1, 2016 THRU DECEMBER 31, 2016

UNIT	CLASS	MONTH	MONITORED	LEAKE	LATE REPAIR
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543 CRUDE

PUMP	7	4	0	0
PUMP	8	4	0	0
PUMP	9	4	0	0
PUMP	10	4	0	0
PUMP	11	4	0	0
PUMP	12	4	0	0
RELIEF	8	8	0	0
RELIEF	11	8	0	0
VALVE	7	39	0	0
VALVE	8	1,079	1	0
VALVE	9	1	0	0
VALVE	10	1	0	0
VALVE	11	1,085	5	0
VALVE	12	13	0	0

2,258

6

0

544 CRUDE

PUMP	7	15	0	0
PUMP	8	15	0	0
PUMP	9	15	0	0
PUMP	10	15	0	0
PUMP	11	15	0	0
PUMP	12	15	0	0
RELIEF	7	1	0	0
RELIEF	8	8	0	0
RELIEF	11	8	0	0
VALVE	7	24	0	0
VALVE	8	1,174	5	0
VALVE	9	5	0	0
VALVE	10	5	0	0
VALVE	11	1,174	13	0
VALVE	12	13	1	0

2,502

19

0

544 VACUUM

PUMP	7	2	0	0
PUMP	8	2	0	0
PUMP	9	2	0	0



PUMP	10	2	0	0
PUMP	11	2	0	0
PUMP	12	2	0	0
RELIEF	8	7	0	0
RELIEF	11	7	0	0
VALVE	8	392	0	0
VALVE	11	394	2	0
VALVE	12	5	0	0

<u>817</u>	<u>2</u>	<u>0</u>
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#### BOILER 14

VALVE	7	48	0	0
VALVE	8	1	0	0
VALVE	9	49	0	0
VALVE	12	49	5	0

<u>147</u>	<u>5</u>	<u>0</u>
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#### BOILERS 9 & 10

CONECT	12	1	1	0
RELIEF	9	4	0	0
RELIEF	12	4	0	0
VALVE	7	5	0	0
VALVE	8	1	0	0
VALVE	9	434	0	0
VALVE	10	1	0	0
VALVE	12	435	0	0

<u>885</u>	<u>1</u>	<u>0</u>
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#### FLARE GAS RECOVERY

PUMP	7	7	0	0
PUMP	8	7	0	0
PUMP	9	7	0	0
PUMP	10	7	0	0
PUMP	11	7	0	0
PUMP	12	7	0	0
RELIEF	9	20	0	0
RELIEF	12	20	0	0
VALVE	7	1	0	0
VALVE	8	1	0	0
VALVE	9	1,054	3	0
VALVE	10	3	0	0
VALVE	11	3	2	0
VALVE	12	1,054	0	0

<u>2,198</u>	<u>5</u>	<u>0</u>
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VGO

CONECT	10	1	1	0
PUMP	7	1	0	0
PUMP	8	1	0	0
PUMP	9	1	0	0
PUMP	10	1	0	0
PUMP	11	1	0	0
PUMP	12	1	0	0
RELIEF	7	11	0	0
RELIEF	10	11	0	0
VALVE	7	617	4	0
VALVE	8	4	0	0
VALVE	9	4	0	0
VALVE	10	616	3	0
VALVE	11	3	1	0
VALVE	12	3	0	0
		<u>1,276</u>	<u>9</u>	<u>0</u>
		<b>10,083</b>	<b>47</b>	<b>0</b>



MONROE ENERGY TRAINER REPORT  
 GGGa SEMI ANNUAL LDAR REPORT  
 COMPONENTS ON DELAY OF REPAIR  
 REPORT DATE: JANUARY 5, 2016  
 REPORT PERIOD: JULY 1, 2016 THRU DECEMBER 31, 2016

TAG	UNIT	CLASS	DATE PLACED ON DELAY
TOTAL:			0



MONROE ENERGY TRAINER REPORT  
GGGa SEMI ANNUAL LDAR REPORT  
REMOVED FROM DELAY OF REPAIR  
REPORT DATE: JANUARY 5, 2016  
REPORT PERIOD: JULY 1, 2016 THRU JANUARY 31, 2016

TAG	UNIT	ON DELAY	OFF DELAY
		TOTAL:	0



MONROE ENERGY TRAINER REPORT  
 GGGa SEMI ANNUAL LDAR REPORT  
 ADDED AND DELETED  
 REPORT DATE: JANUARY 5, 2016  
 REPORT PERIOD: JULY 1, 2016 THRU DECEMBER 31, 2016

UNIT	CLASS	ADDED	DELETE
543 CRUDE	PRESSURE RELIEF DEVICE	0	0
543 CRUDE	PUMP	0	0
543 CRUDE	VALVE	8	4
544 CRUDE	PRESSURE RELIEF DEVICE	0	0
544 CRUDE	PUMP	0	0
544 CRUDE	VALVE	1	1
544 VACUUM	PRESSURE RELIEF DEVICE	0	0
544 VACUUM	PUMP	0	0
544 VACUUM	VALVE	3	1
BOILER 14	VALVE	0	0
BOILERS 9 & 10	CONNECTOR	1	0
BOILERS 9 & 10	PRESSURE RELIEF DEVICE	0	0
BOILERS 9 & 10	VALVE	3	2
FLARE GAS RECOVERY	COMPRESSOR	0	0
FLARE GAS RECOVERY	PRESSURE RELIEF DEVICE	0	0
FLARE GAS RECOVERY	PUMP	0	0
FLARE GAS RECOVERY	VALVE	0	0
VGO	COMPRESSOR	0	0
VGO	CONNECTOR	1	0
VGO	PRESSURE RELIEF DEVICE	0	0
VGO	PUMP	0	0
VGO	VALVE	0	8
TOTAL:		17	16





42-045-00070

**Monroe Energy, LLC**  
**4101 Post Road**  
**Trainer, PA 19061**  
**(610) 364-8000**

January 11, 2017

Via FedEx

Mr. James Rebarchak  
 Program Manager, Air Quality Program  
 PA Department of Environmental Protection  
 Southeast Regional Office  
 2 East Main Street  
 Norristown, PA 19401

RECEIVED

JAN 31 2017

Air Protection Division

**RE: Monroe Energy, LLC – Trainer Refinery**  
**40 CFR 60, Subpart QQQ Semi-Annual Report**  
**Reporting Period: July 1 – December 31, 2016**  
**Title V Operating Permit No. 23-00003**

Mr. Rebarchak:

In accordance with 40 CFR Part 60, Subpart QQQ – Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems, the Monroe Energy, LLC Trainer Refinery respectfully submits this Semi-Annual Report for the reporting period July 1, 2016 through December 31, 2016.

All required visual inspections and Method 21 monitoring activities were completed during the reporting period for the following regulated equipment:

- API Separator North and South Bay Floating Roofs
- API Separator North and South Bay Fixed Inlet and Outlet Covers
- Regulated Carbon Canisters.
- Regulated Slop Oil Tanks.

Inspection findings and repairs to the aforementioned compliance points are as follows:

Date	Unit	Tag	Class	Findings	Date/Method of Repair	Confirmation
12/20/2016	AWWTP	QQQ97	API Back End Fixed Roof (North Side)	During QQQ Compliance Semi Annual Visual Inspection of API Separator Bay C/D Panel identified a gap in panel seam caulking	12/20/2016/ Environmental Contractor Caulked Gap in Seam	12/20/2016 (Final inspection and confirmation by QQQ Program Contractor and Program Lead)
12/20/2016	AWWTP	QQQ02	API Front End Fixed Roof (North Side)	During QQQ Compliance Semi Annual Visual Inspection of API Separator identified a gap in panel seam caulking	12/20/2016/ Environmental Contractor Caulked Gap in Seam	12/20/2016 (Final inspection and confirmation by QQQ Program Contractor and Program Lead)
12/20/2016	AWWTP	QQQ28	API Front End Fixed Roof (North Side)	QQQ Compliance Semi Annual Visual Inspection of API Separator identified a gap in flanged butterfly skim valve cover seam caulking	12/20/2016/ Environmental Contractor Caulked Gap in Seam	12/20/2016 Final inspection and confirmation by QQQ Program Contractor and Program Lead

### OWS (Process Water Sewer) Drains

All required monthly inspections of regulated drains were completed during the reporting period. The results of the monthly inspections are summarized as:

- July: Tags 1-12, 6-37, 6-38: Added water to dry/low water seal emission control
- August: Tags 2-11, 1-41: Added water to dry/low water seal emission control
- September: Tags 3-070A, 3-070B, 3-24, 1-7, 1-11, 6-37, 6-38, 4-7: Added water to dry/low water seal emission control
- October: Tags 2-204, 2-205, 2-206, 2-207, 1-41, 4-9, 4-10: Added water to dry/low water seal emission control
- November: Tags 4-22, 3-18, 4-8: Added water to dry/low water seal emission control
- December: Tags 3-067, 3-37, 6-26, 6-27: Added water to dry/low water seal emission control

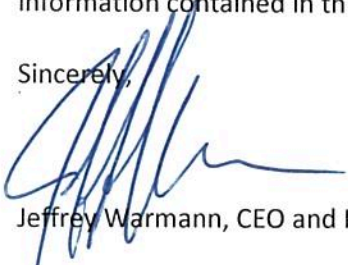
### Junction Boxes

All required semi-annual visual inspections of regulated junction boxes and unburied sewer lines were completed and there were no findings identified for the reporting period.

If you have any questions or comments regarding this report, please contact Stephani Ski Szymanski, Environmental Engineer, at (610) 364-8073.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this form are true, accurate, and complete.

Sincerely,



Jeffrey Warmann, CEO and President

Cc: U.S. EPA, Region III  
Director, Air Protection Division  
Mail Code 3AP00  
1650 Arch Street  
Philadelphia, Pa 19103-2029  
**Via FedEx**